

The background is a light cream color, decorated with various stylized illustrations of fruits and leaves. In the top left, there's a green leaf with yellow spiral patterns. Below it, a yellow fruit with red oval seeds is partially visible. To the right of the center, a large orange fruit with yellow oval seeds is shown. At the bottom left, another orange fruit with white spiral patterns is partially visible. Green leaves and stems are scattered throughout the composition. The main title is centered in a bold, dark brown font.

01

開發環境與驅動程式安裝

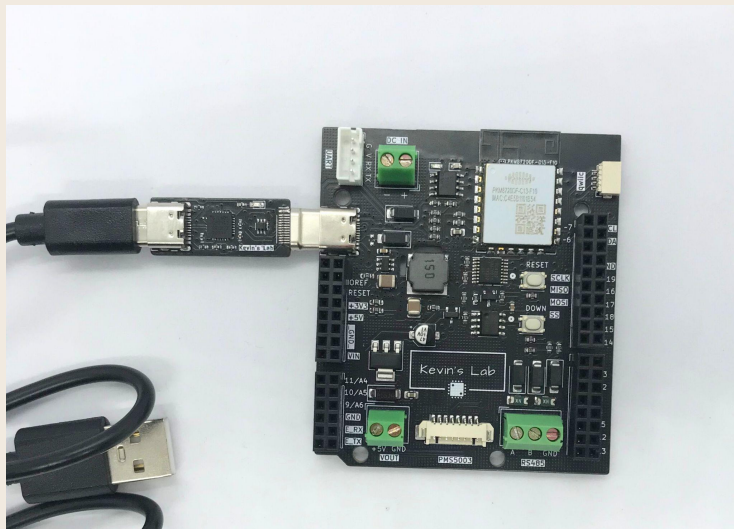
開發環境與驅動程式安裝

上傳工具



開發環境與驅動程式安裝

上傳工具



開發環境與驅動程式安裝

將USB 上傳工具接入 Type-C 及電腦

如果在 裝置管理員 出現 驚嘆號,

表示需要安裝驅動程式



開發環境與驅動程式安裝

驅動程式安裝

開啟網頁:

<https://www.silabs.com/developers/usb-to-uart-bridge-vcp-drivers?tab=downloads>



開發環境與驅動程式安裝

驅動程式安裝

Windows 選擇

CP210x Windows Drivers

Mac 選擇

CP210x VCP MAC OSX Driver

Software Downloads

[Software](#) (10)

Software · 10

CP210x Universal Windows Driver	v11.3.0 6/24/2023
CP210x VCP Mac OSX Driver	v6.0.2 10/27/2021
CP210x Windows Drivers	v6.7.6 9/4/2020
CP210x Windows Drivers with Serial Enumerator	v6.7.6 9/4/2020
CP210x_5x_AppNote_Archive	9/4/2020
CP210x_VCP_Win2K	9/4/2020
Linux 2.6.x VCP Revision History	9/4/2020
Linux 3.x.x/4.x.x/5.x.x VCP Driver	v3.x.x/4.x.x/5.x.x 1/29/2021
VCP Driver for WinCE60	v2.1 9/4/2020
VCP Drivers for WinCE50	v2.1 9/4/2020

開發環境與驅動程式安裝

下載後，並解壓縮。找到

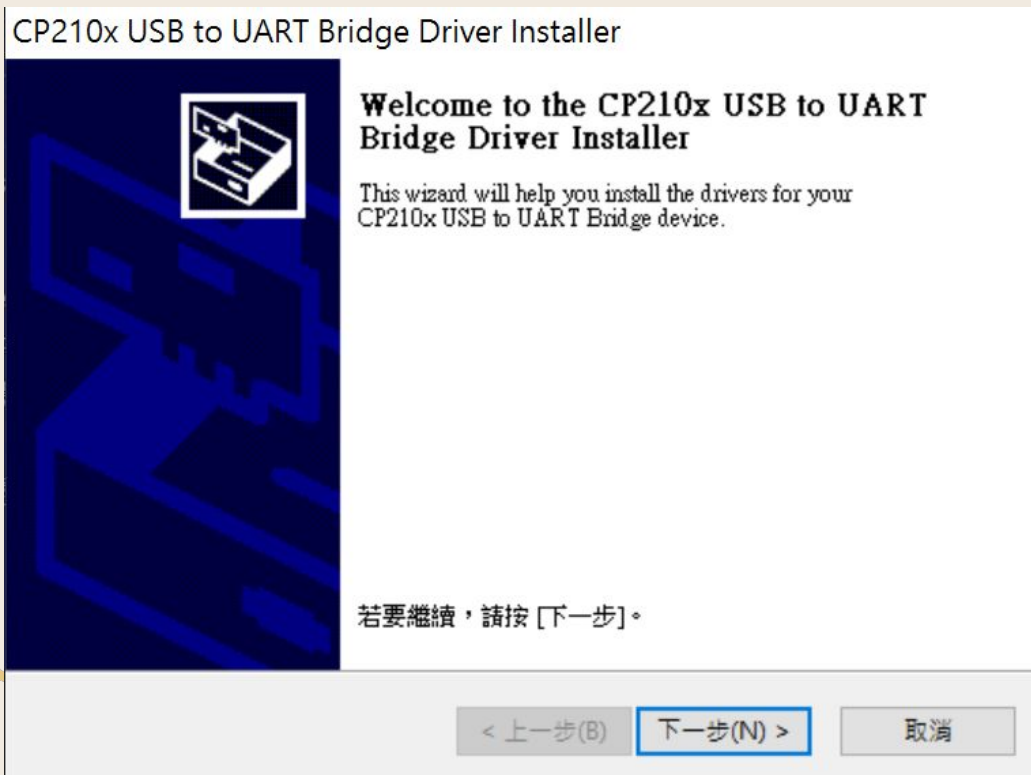
CP210xVCPInstaller_x64.exe

並執行它



開發環境與驅動程式安裝

按下一步繼續，
按指示安裝。



開發環境與驅動程式安裝

安裝 Arduino IDE

下載點

arduino.cc/en/software



Arduino IDE 2.1.0

The new major release of the Arduino IDE is faster and even more powerful! In addition to a more modern editor and a more responsive interface it features autocompletion, code navigation, and even a live debugger.

For more details, please refer to the [Arduino IDE 2.0 documentation](#).

Nightly builds with the latest bugfixes are available through the section below.

DOWNLOAD OPTIONS

Windows Win 10 and newer, 64 bits

Windows MSI installer

Windows ZIP file

Linux AppImage 64 bits (X86-64)

Linux ZIP file 64 bits (X86-64)

macOS Intel, 10.14: "Mojave" or newer, 64 bits

macOS Apple Silicon, 11: "Big Sur" or newer, 64 bits

[Release Notes](#)

開發環境與驅動程式安裝

Arduino 設定

複製以下連結

https://github.com/ambiot/ambd_arduino/raw/master/Arduino_package/package_realtek_amebad_index.json

開啟 File / preferences

在 Additional boards manager URLs 的欄位 貼上 上述網址, 點 OK 結束設定

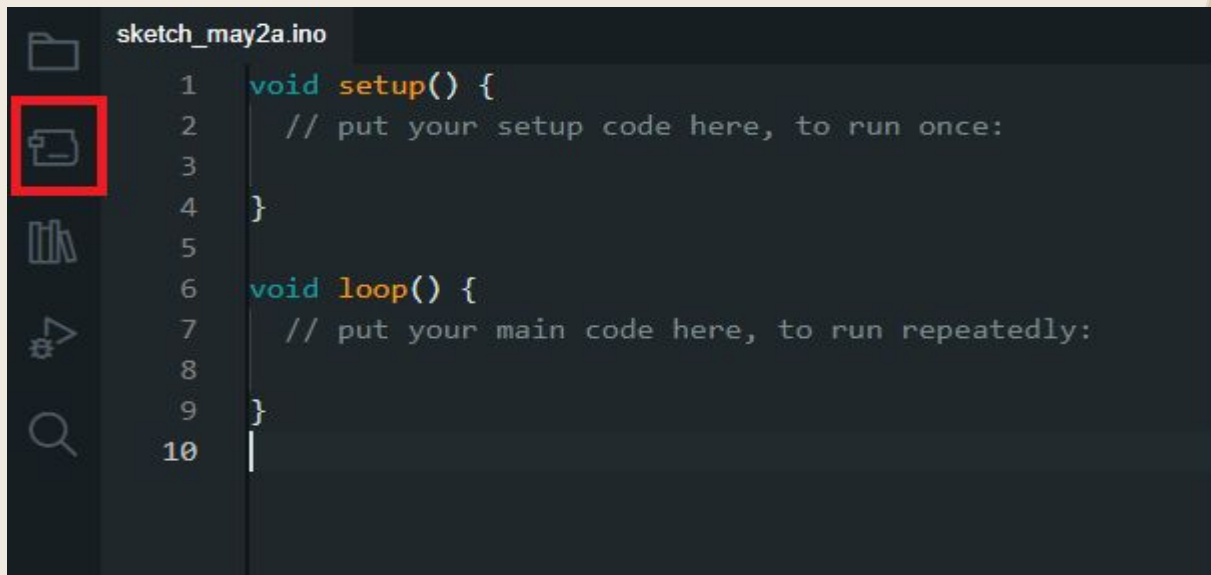
Additional boards manager URLs: |



開發環境與驅動程式安裝

- Arduino 設定

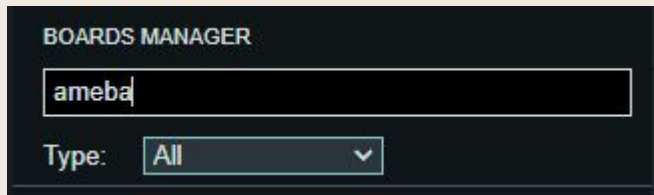
點取左側 第二個圖示， Boards Manager



開發環境與驅動程式安裝

- Arduino 設定

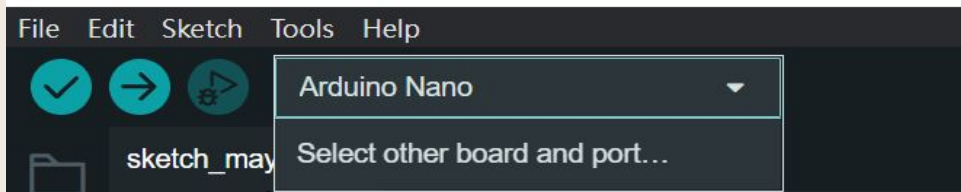
輸入 ameba



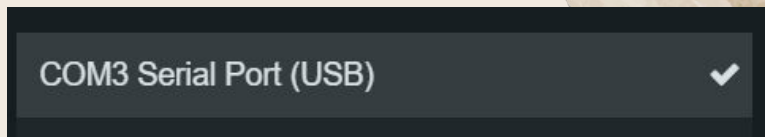
開發環境與驅動程式安裝

- Arduino 設定

透過 USB 連接 開發板



選擇 Select other board and port



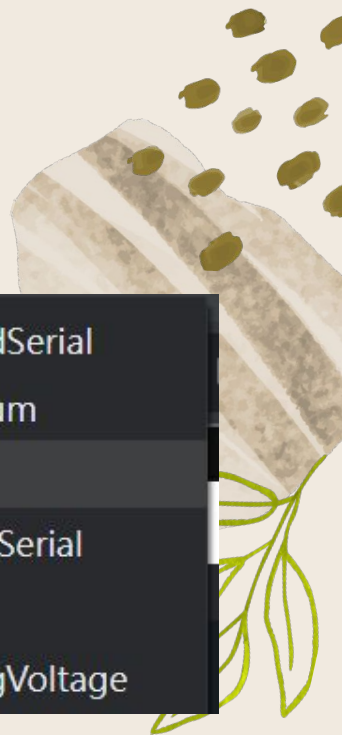
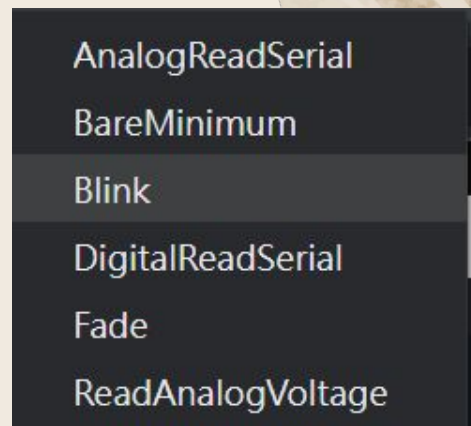
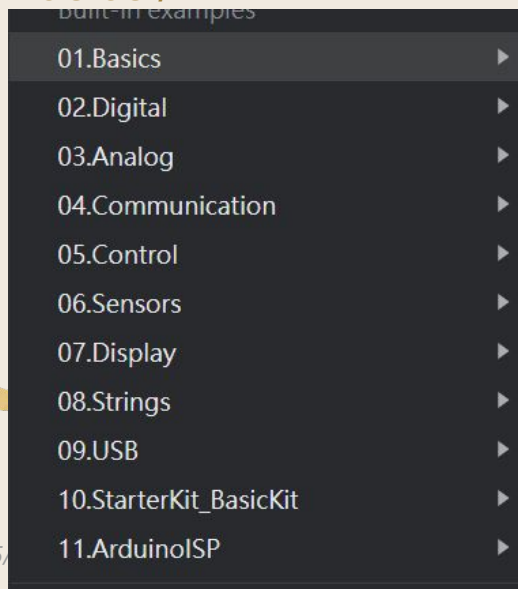
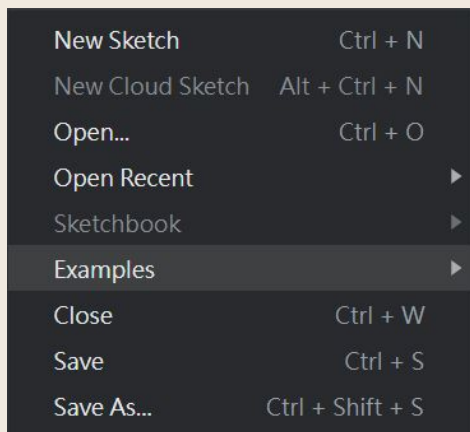
Board 選擇 Datalogger Series(RTL8720DF)

開發環境與驅動程式安裝

- Arduino 設定

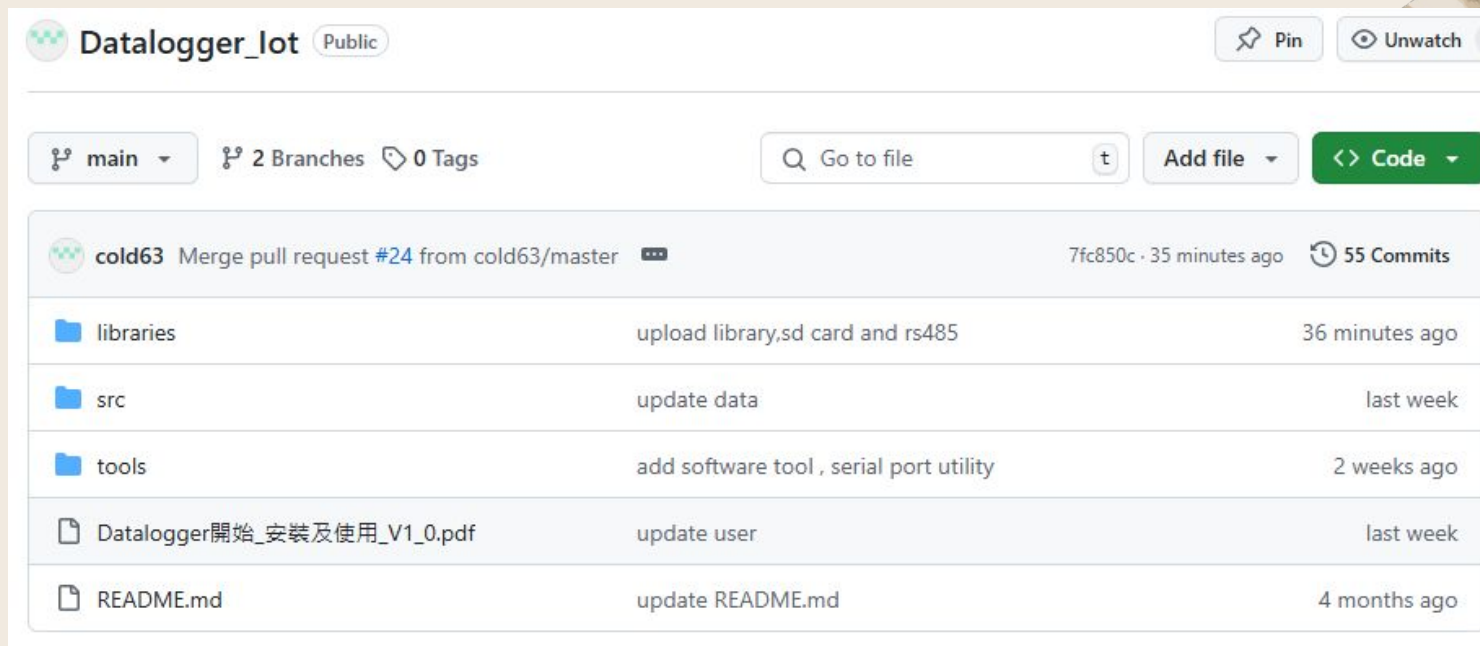
第一個程式

打開 File / Examples / 01.Basics / Blink



開發環境與驅動程式安裝

- 範例程式及資料 (操作手冊及程式庫)
 - https://github.com/cold63/Datalogger_lot/tree/main



Datalogger_lot Public

main 2 Branches 0 Tags

Go to file Add file Code

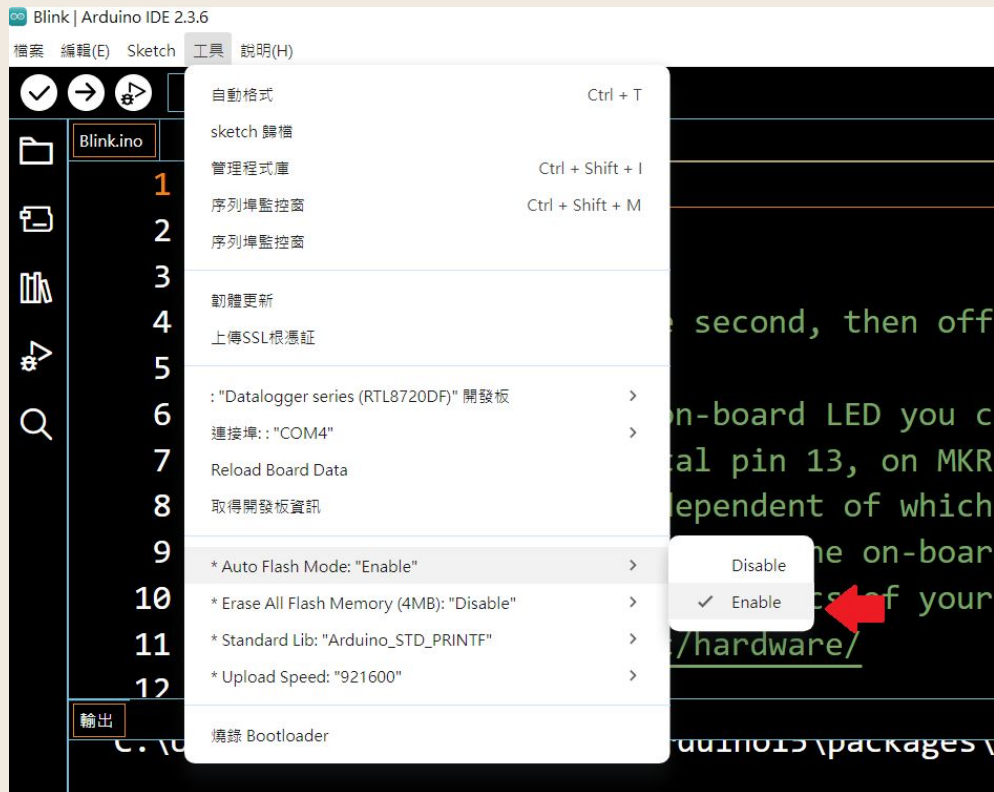
cold63 Merge pull request #24 from cold63/master 7fc850c · 35 minutes ago 55 Commits

libraries	upload library, sd card and rs485	36 minutes ago
src	update data	last week
tools	add software tool , serial port utility	2 weeks ago
Datalogger開始_安裝及使用_V1_0.pdf	update user	last week
README.md	update README.md	4 months ago

開發環境與驅動程式安裝

工具 / Auto Flash Mode

選擇 Enable



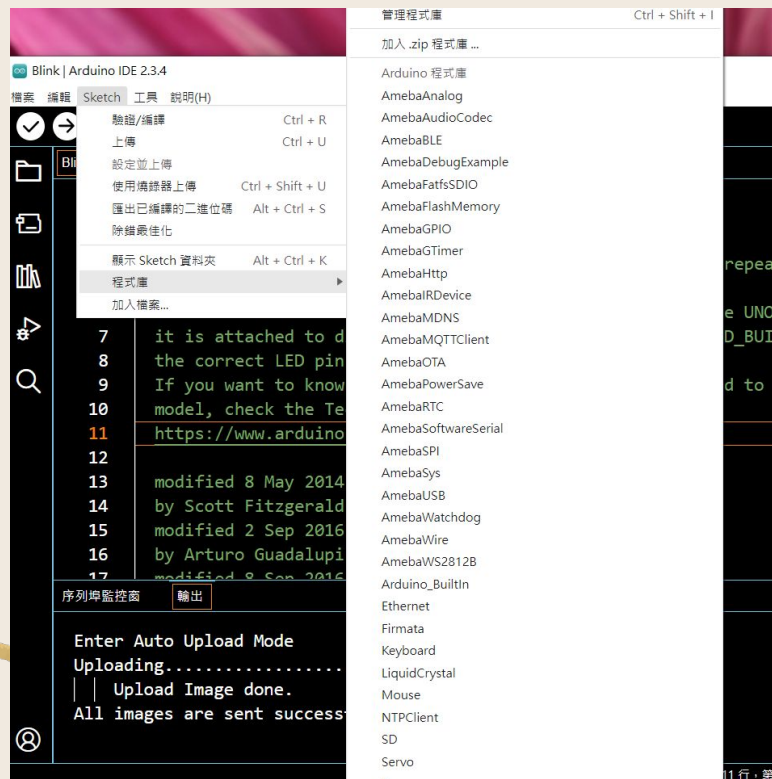
開發環境與驅動程式安裝

執行上傳



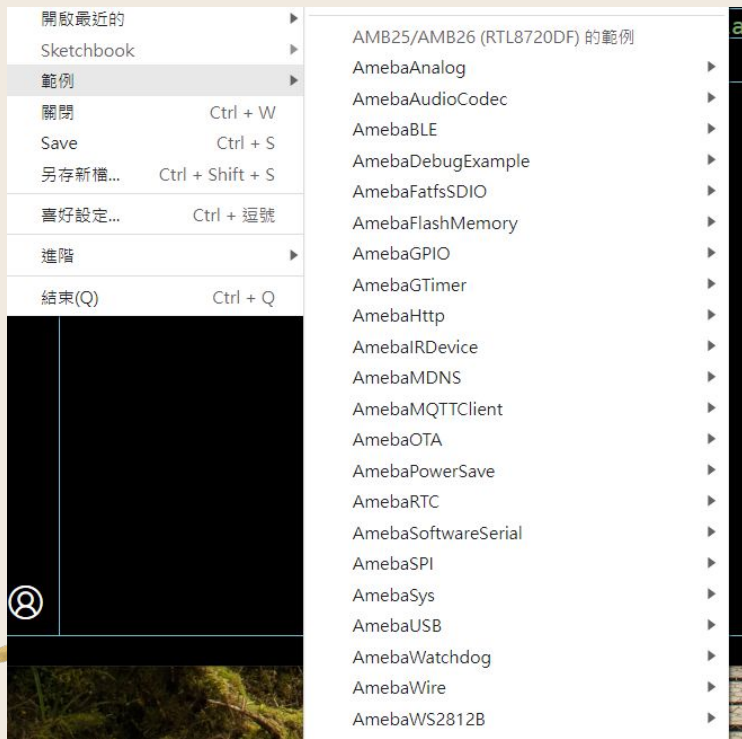
開發環境與驅動程式安裝

- 安裝 Zip 程式庫的方法



開發環境與驅動程式安裝

Realtek 提供的 Arduino 範例



開發環境與驅動程式安裝

常用程式庫安裝

- RS-485
 - ModbusMaster by Doc Walker (Arduino IDE 安裝)
 - Modbus-Master-Slave-for-Arduino (下載安裝)
- SD Card
 - SdFat (下載安裝)
- Oled
 - u8g2 (Arduino IDE 安裝)

